Claims

1. Radio system with at least one radiocommunication device, which features:
- a reconfigurable radio interface,
- a first memory, in which normal operation configuration information is stored,
- a second memory, in which error configuration information is stored,
- a control unit for configuring the reconfigurable radio interface,
- an error detection device which is set up to detect an error of the reconfigurable radio interface and
- an error treatment device, which is set up to use the error configuration information to provide error treatment so that the reconfigurable radio interface is reconfigured.

2. Radio system in accordance with claim 1, set up as a mobile radio system.

3. Radio system in accordance with claim 1 or 2, in which the error treatment device is integrated into a separate electronic chip.

4. Radio system in accordance with one of the claims 1 to 3, in which the radiocommunication device features an emergency call device which is set up such that there is provision for setting up an emergency call even if the radiocommunication device has a fault.

5. Radio system in accordance with one of the claims 1 to 4, with radio characteristics of the reconfigurable radio interface being predetermined in the normal operation configuration information and/or in the error configuration information.

6. Radio system in accordance with claim 5, with the normal operation configuration information and/or the error configuration information containing at least some of the following radio characteristics of the reconfigurable radio interface:

- a transmit power of the radiocommunication device,
- a modulation method to be used within the framework of radio communication,
- one or more frequencies to be used within the framework of radio communication,
- one or more frequency bands and/or
- a communication protocol to be used within the framework of radio communication.

7. Radiocommunication device

- with a reconfigurable radio interface,
- with a first memory, in which normal operation configuration information is stored,
- with a second memory, in which error configuration information is stored,
- with a control unit for configuring the reconfigurable radio interface,
- with the control unit for configuration the reconfigurable radio interface being set up such that, on occurrence of an error, by using the error configuration information a communication connection can be set up to a processor providing error treatment.

8. Radiocommunication device in accordance with claim 7, set up as a mobile radiocommunication device.

9. Radiocommunication device in accordance with claim 7 or 8, set up as a mobile radio telephone.

10. Radiocommunication device in accordance with claim 7 or 8,

set up as a mobile radio module.

11. Radiocommunication device in accordance with one of claims 7 to 10,
with an emergency call device which is set up so that it is possible to set up an error-free emergency call communication connection even in the event of an error.

12. Radiocommunication device in accordance with one of the claims 7 to 11,
with radio characteristics of the reconfigurable radio interface being given in the normal configuration information and/or in the error configuration information.

13. Radiocommunication device in accordance with claim 12, with at least some of the following radio characteristics of the reconfigurable radio interface being contained in the normal operation configuration information and/or in the error configuration information:
- a transmit power of the radiocommunication device,
- a modulation method to be used within the framework of radio communication,
- one or more a frequencies to be used within the framework of radio communication,
- one or more frequency bands to be used within the framework of radio communication and/or
- a communication protocol to be used within the framework of radio communication.

14. Method for modifying a reconfigurable radio interface of a radiocommunication device,
- in which an error of the reconfigurable radio interface of the radiocommunication device is detected and
- in which, using error configuration information stored in addition to the normal operation configuration information

in the radio device, error treatment is performed by means of a control unit and the radio interface is configured in accordance with the configuration information.